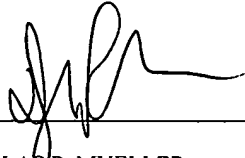


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| FORM PTO-1390 (REV 10-94) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTORNEY'S DOCKET NUMBER | |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | | | 14633.8USWO | |
| | | | | U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) UNKNOWN 10/539188 | |
| INTERNATIONAL APPLICATION NO. PCT/JP2003/014182 | | INTERNATIONAL FILING DATE 7 NOVEMBER 2003 | | PRIORITY DATE CLAIMED 27 DECEMBER 2002 | |
| TITLE OF INVENTION A METHOD OF DEUTERATION | | | | | |
| APPLICANT(S) FOR DO/EO/US ITO et al. | | | | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | | | | |
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(I). 4. <input type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) 6. <input checked="" type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). <p>Items 11. to 16. below concern document(s) or information included:</p> <ol style="list-style-type: none"> 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98, 7 references. 12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND of SUBSEQUENT preliminary amendment. 14. <input type="checkbox"/> A substitute specification. 15. <input type="checkbox"/> A change of power of attorney and/or address letter. 16. <input checked="" type="checkbox"/> Other items or information: Application Data Sheet (5 pages), International Publication Page of WO 2004/060831 A1, Form PCT/ISA/210 (in Japanese language), Form PCT/IB/304, Form PCT/IB/308. | | | | | |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------|--------|
| U.S. APPLICATION NO. (if known, see 37 C.F.R. 1.51) 10/539188 UNKNOWN | | INTERNATIONAL APPLICATION NO. PCT/JP2003/014182 | | ATTORNEY'S DOCKET NUMBER 14633.8USWO | |
| BASIC NATIONAL FEE (37 CFR 1.492(a) (1)-(5)): | | | | | |
| [X] a) Basic National fee.....\$300.00 | | | | \$300.00 | |
| [X] b) Examination fee.....\$200.00 | | | | \$200.00 | |
| [X] c) Search fee.....\$500.00 | | | | \$500.00 | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$1000.00 | |
| Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | Rate | | |
| 36 - 100 = | 0 / 50 = | | X \$250.00 | \$0.00 | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than [] 20 [] 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | | | \$0.00 | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | |
| Total claims | 12 - 20 = | 0 | X \$50.00 | \$0.00 | |
| Independent claims | 2 - 3 = | 0 | X \$200.00 | \$0.00 | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | + \$360.00 | \$0.00 | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$1000.00 | |
| Reduction by 1/2 for filing by small entity, if applicable. Small entity status is claimed pursuant to 37 CFR 1.27 | | | | \$0.00 | |
| SUBTOTAL = | | | | \$1000.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than [] 20 [] 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | | | + \$0.00 | |
| TOTAL NATIONAL FEE = | | | | \$1000.00 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | + \$40.00 | |
| TOTAL FEES ENCLOSED = | | | | \$1040.00 | |
| | | | | Amount to be: refunded | \$0.00 |
| | | | | charged | \$0.00 |
| a. [X] Check(s) in the amount of <u>\$1040.00</u> to cover the above fees is enclosed. | | | | | |
| b. [] Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. | | | | | |
| c. [X] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50-3478</u> . | | | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status. | | | | | |
| SEND ALL CORRESPONDENCE TO: Douglas P. Mueller Hamre, Schumann, Mueller & Larson, P.C. P.O. Box 2902-0902 Minneapolis, MN 55402 | | | | | |
| | | | | SIGNATURE:  | |
| | | | | NAME: DOUGLAS P. MUELLER | |
| | | | | REGISTRATION NUMBER: 30,300 | |

Applicant: ITO et al.
 Docket: 14633.8USWO
 Title: A METHOD OF DEUTERATION

CERTIFICATE UNDER 37 CFR 1.10:

"Express Mail" mailing label number: ED 769611743 US

Date of Deposit: JUNE 16, 2005

I hereby certify that this paper or fee is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450.

By: 

Name: YUHGO MARUTA

Mail Stop PCT
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

Sir:

We are transmitting herewith the attached:

- ☒ Transmittal sheet, in duplicate, containing Certificate under 37 CFR 1.10.
- ☒ National Stage PCT Patent Application: Spec. 33 pgs; 12 claims; Abstract 1 pgs.
The fee has been calculated as shown below in the 'Claims as Filed' table.
- ☒ A signed Combined Declaration and Power of Attorney
- ☒ Assignment of the invention to Wako Pure Chemical Industries, Ltd., Recordation Form Cover Sheet
- ☒ Check(s) in the amount of \$1040.00 to cover the Filing Fee and Assignment Recording Fee
- ☒ Information Disclosure Statement, Form 1449, 7 references.
- ☒ Application Data Sheet, 5 pages.
- ☒ Other: Form PTO-1390, International Publication page of WO 2004/060831 A1, English translation of the application, Preliminary Amendment, Form PCT/ISA/210 (in Japanese language), Form PCT/IB/304, Form PCT/IB/308.
- ☒ Return postcard

CLAIMS AS FILED

| Number of Claims Filed | No. | In Excess of | Extra | Rate | Fee |
|--------------------------------------|-----|--------------|-------|--------|-----------|
| Total Claims | 12 | 20 | 0 | 50.00 | = 0.00 |
| Independent Claims | 2 | 3 | 0 | 200.00 | = 0.00 |
| Multiple Dependent Claims Fee | | | | | = 0.00 |
| Basic Filing Fee | | | | | = 300.00 |
| Search Fee | | | | | = 500.00 |
| Examination Fee | | | | | = 200.00 |
| Utility Application Size Fee | 36 | 100 | 0 | 250.00 | = 0.00 |
| Total | | | | | = 1000.00 |

Please charge any additional fees or credit overpayment to Deposit Account No. 50-3478. A duplicate of this sheet is enclosed.

Hamre, Schumann, Mueller & Larson, P.C.
 P.O. Box 2902-0902 Minneapolis, MN 55402
 612.455-3800

By: 

Name: Douglas P. Mueller
 Reg. No.: 50,300
 Initials: DPM:nel

52835

PATENT TRADEMARK OFFICE

(PTO TRANSMITTAL - NEW FILING)